

Frequently Asked Questions: Multi-Point Astragal

Astragal Options and Aesthetics

Can the handing be reversed?

No, the Multi-Point Astragal is not designed to be reversible.

Can an inswing astragal be converted to an outswing astragal and vice versa?

An inswing astragal can be converted to an outswing by cutting a 9/16" notch and adding a finned cap at the bottom of the astragal similar to the Ultimate Astragal. Detailed instructions are available.

Can a Multi-Point Astragal be cut down in length? If so, how much?

6/8 and 8/0 astragals may be cut down from their nominal heights by up to 7" depending on the ordered length. Astragals can be cut down from the top end only.

A 6/8 (80") astragal may be cut down to a minimum length of 73". An 8/0 (96") astragal may be cut down to a minimum length of 89". Detailed instructions are available.

Are special lengths available?

Yes. Some special sizes are available upon request. Special lengths will incur a punch set up charge based on the order. Sizes outside of the standard ranges must be specified upon placing an order. Lengths of 65" or less cannot be accommodated.

Can the astragal be painted?

Endura's astragals are provided with an exterior grade paint, so repainting is not necessary. However, customers wishing to repaint Endura astragals should consult their paint suppliers regarding proper methods. Wood Veneer wrapped versions require staining or painting before being exposed in the field.

Strike and Deadbolt

Can the strike and deadbolt plates be adjusted horizontally and vertically?

Strike and deadbolt locations are vertically adjustable, however only the strike location is horizontally adjustable. Since the deadbolt plate is integral to the underlying actuator, it is not horizontally adjustable. The width of the deadbolt receiving hole should be wide enough to accommodate most adjustment needs.

Can the astragal accommodate latch and deadbolt plates which come with most lock sets?

A deadbolt plate is integrated in the astragal design, thus a separate deadbolt plate is not required, nor can it be attached.

Most strike plates will fit. This will depend on the size and hole spacing of the plates to be used. The design can accommodate hole spacing from 1-5/8" to 2-1/8" with a maximum plate length of 2-3/4".

Which lock set brands will work with the Multi-Point Astragal?

Latch and deadbolt locks from most major manufacturers will work with the Multi-Point Astragal. An important element in determining if the lock set will work with the Multi-Point Astragal is the size and shape of the deadbolt itself. It cannot exceed 3/4" in diameter or 5/8" across its flat faces.

Can a mortise lock be used with the Multi-Point Astragal?

A mortise lock can be used with the Multi-Point Astragal only if the lock bolt meets the size limitations described above (cannot exceed 3/4" in diameter or 5/8" across its flat faces) and is centered across the thickness of the door panel.

Installation

What is the maximum margin between the inactive and active doors for the 3-point locks to engage?

The maximum recommended margin is 1/4".

How precise must the routing of the active door keeper pockets be to ensure engagement of the multi-point lock mechanism on the astragal?

The keepers in the active door are what essentially catches and locks the entire system. The keepers need to be aligned (following the instructions, to catch the lock pawls from the astragal). The keeper height position on the active door must match the lock position on the astragal within +/- 1/8". Keeper routs should be centered on the thickness of the door within 1/32"

If my door is warped or deflected, will the multi-point lock pawls engage?

The locks will effectively engage the keepers as long as the door panel warp or deflection does not exceed 3/16" at the lock points.

Installation

Can the Multi-Point Astragal be used on a metal edge door?

No. The Multi-Point Astragal was designed specifically for composite, wood or PVC edged door panels.

What door panel latch and deadbolt bore locations can be accommodated?

The Multi-Point Astragal can accommodate:

Latch bore center line locations:

For 6/8 panels: between 33-1/8" and 35-9/16" from the bottom of the door panel

For 8/0 panels: between 33-1/8" and 39-21/32" from the bottom of the door panel

Deadbolt bore center line locations:

For 6/8 panels: between 3-1/2" - 6" above the latch bore center line

For 8/0 panels: between 3-1/2" - 10-1/2" above the latch bore center line

Non-standard latch and deadbolt centers can be accommodated in special cases upon request.

Testing

Is the performance of the Multi-Point Astragal certified?

As with any individual component, the astragal itself cannot be certified - it must be integrated with door panels **and** a framing system; then the entire door system can be certified tested and rated.

Endura has conducted Certified 3rd Party testing for Air, Water and Structural performance using industry recognized ASTM standards. These tests have been conducted in combination with various door panels from a number of manufacturers.

What levels of performance does the Multi-Point Astragal meet?

Certified testing results for Air penetration resistance and Water Infiltration resistance for the Multi-Point Astragal exceed results obtained using a standard Ultimate Astragal. Depending upon door type and height, Water infiltration results range up to DP45 for 6/8 panels and up to DP40 for 8/0 doors. Specific results are available.

Certified Structural testing results for the Multi-Point Astragal exceed results for the Ultimate Astragal and meet or exceed results for the Ultimate Hurricane Astragal. Specific results are available.

Testing (cont.)

Does it meet Florida, Dade County, TDI and other Structural Testing requirements?

The Ultimate Multi-Point Astragal has been tested and approved for use in Florida under the statewide Product Approval system, including Miami-Dade's High Velocity Hurricane Zone. It has also been evaluated and listed under the Texas Department of Insurance's Product Evaluation Index. Listings include both non-impact and impact ratings. Results cover the Ultimate Multi-Point Astragal in door assemblies with a variety of panel brands and models. Applications include 6/8 and 8/0 heights, both in inswing and outswing configurations. Certified test reports can also be used to show code compliance in states which do not have a formalized product evaluation system.

What types of durability testing have been conducted?

Ultimate Multi-Point Astragal operation and durability tests were successfully evaluated based on industry standards. These include:

Engagement Bolt and Operating Lever Durability: The bolt operation lever, engagement bolts, and associated mechanisms were cycled 300,000 times (exceeds on BHMA A156.5, Grade 1).

Deadbolt Actuator, Multi-Point Latch and Keeper Durability: The deadbolt actuator, multi-point latches, multi-point keepers and associated mechanisms were cycled 300,000 times (exceeds BHMA A156.5, Grade 1)

Salt Spray Resistance: All components were exposed to a salt fog under elevated temperatures for 1,000 hours (per ASTM B 117)

Is the finish coating of the astragal suitable for coastal application?

The component materials and finishes have been developed and tested for anticipated service needs in coastal areas. However, local conditions may exceed those simulated in laboratory testing.